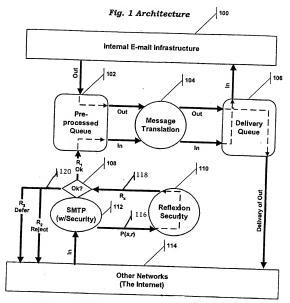
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Legend: s = sender identity r = recipient identity

P(s,r) = Request security status on a message from s to r

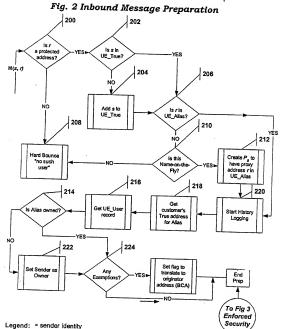
R_x = Security status on a message from s to r

R, = Ok, continue processing message

R₂ = Reject, do not process the message R₃ = Defer, temporarily defer the message back to the sending server

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egend: = sender identity r = recipient identity

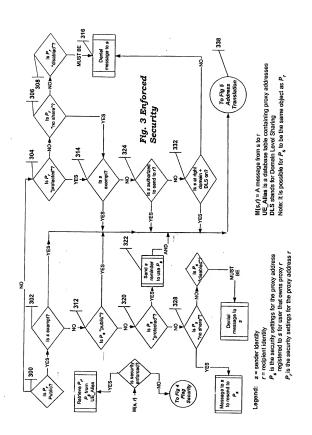
M(s,r) = A message from s to r

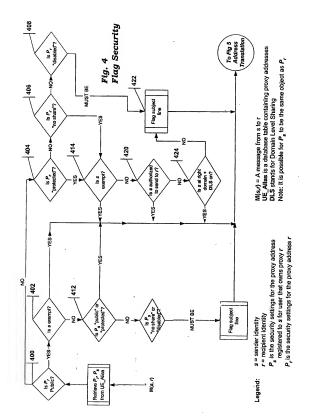
UE_TRUE is a database table containing "real" (i.e. non-proxy) addresses

UE_ALIAS is a database table containing proxy addresses UE_User is a database table containing user information

BCA = "Business Card Address", the originator address managed by the internal mail transport agent (i. e. mail server)

 P_s is the security settings for the proxy address registered to s for user that owns originator address to which proxy r is a substitute





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Fig. 5 Address Translations 500 502 "True" Identifiers (UE_True table) Proxy Identifiers (UE_Alias table) T1 = Inside Identifier 1 P(T2.T1) = Substitute identifier for T1, registered to T2 T2 = Outside Identifier 1 P(Tarr) = Substitute Identifier for T1, registered to T3 T3 = Outside Identifier 2 $P(T_{0,T_1}) = Substitute identifier for T1, registered to Tn.$ T4 = Inside Identifier 2 Tn = Outside Identifier n $P(T_{x,T_x}) = Tx$, registered to Txs = sender identity T(a) = Method that returns tranlation of address a for a r = recipient identity message from s to r a = An address reference to translate D(Tx. T1) = Method that returns the proxy P that Tx uses to M(s,r) = A message from s to r send e-mail to T1. Sometimes $D(T_{x,T_1}) \Leftrightarrow P(T_{x,T_1})$ iNBOUND, successfully past security, where: 1. a = r, s = T2, $r = P(_{T2,T4})$, then T(a) = T12. a = r, s = T2, $r = P(_{T3,T1})$, then T(a) = T13. $a = P(T_{4,T_4}), s = T_2, r = P(T_{2,T_1}), \text{ then } T(a) = T_4$ 4. a = P(T4, T4), s = T2, r = P(T3, T1), then T(a) = T4 5. a = T3, s = T2, $r = P(T_{x,T1})$, then T(a) = T36. $a = P(T_{X,Ty})$, s = T2, T2 is exempt, r = any P, then T(a) = TyOUTBOUND, no security on outbound, where: 7. a = r, s = T1, r = T2, then T(a) = P(T2.T1) 8. a = r, s = T1, r = T2, $D(_{72, T1}) \Leftrightarrow P(_{72, T1})$, then $T(a) = D(_{72, T1})$ 9. a = r, s = T1, r = T2, $D(_{T2,T1}) = P(_{T2,T1})$, then $T(a) = P(_{T2,T1})$ 10. a = r, s = T1, r = T2, r is exempt, then $T(a) = P(_{T1,T1})[s]$. 11. a = T3, s = T1, r = T2, then T(a) = P(_{T3, T1}) 12. a = T3, s = T1, r = T2, $D(_{T3,T1}) \Leftrightarrow P(_{T3,T1})$, then $T(a) = D(_{T3,T1})$ 13. a = T3, s = T1, r = T2, $D(_{T1, T2}) = P(_{T2, T1})$, then $T(a) = P(_{T3, T1})$ 14. a = T3, s = T1, r = T2, T3 is exempt, then $T(a) = P(T_{T1}, T_1)$ [S]